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BEAUTIFUL NATIVE PLANTS

FROM THE
HIGH PLAINS, BAD LANDS
AND BLACK HILLS

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U. S. Department of Agriculture



OENOTHERA FREMONTI smiles at the light-flooded skies of its native Great Plains with the gracious beauty of a plant thoroughly at home conscious of its high perfection of form and habit and certain rating among its neighbors and the elite of the rock plant world.

Sun-reflecting light primrose yellow blossoms to nearly four inches across, are open to well along in the day. Leaves are silvery with appressed silky hairs.

Fremonti's native footing is of clay loam and rock chip or limestone fissures with a little soil. It is probably amenable to any garden treatment affording good drainage.

★ ★
Claude A. Barr

PRAIRIE GEM RANCH

SMITHWICK, S. D.

HABITAT AND GARDEN SUCCESS:

To grow the Great Plains plants it is important to recognize native factors of adaptation and environment. Character and faculty have been molded in these plants by untold ages of living where periods of moisture shortage are long and of moisture excess very brief.

Moisture retention devices in the plant structure have been developed to an outstanding degree to withstand shortage; to escape excesses the canny plants select high places and slopes, rocky, gravelly and porous soils from which excess water readily drains away or down, thus quickly restoring aeration. In general moisture is sought, wetness avoided.

A recommended scree mixture for replacing soils that are close textured and impervious or too rich and moisture retentive, or to counteract inescapable shade from remote trees or other objects, is made up of equal parts of ordinary soil, coarse sand, and fine gravel or rock chips, including some lime. This provides an excellent base for all Great Plains plants. The needs of certain subjects for portions of richer soil may be met by adding leaf-mold or other humus locally, in planting or in top-dressing.

All plants listed herein are tolerant of lime and a few demand it. If your rooting medium is suspected of not being "lean" enough for the ardent sun-lovers substitute subsoil, up to three-fourths for soil. Lime in a very acceptable form and coarse drainage material, if your needs are for less than ton lots, may be had from poultry supply stores in the form of crushed oyster shells and hen grit.

SERVICE: High quality plants only are sent on your order. Our packing will please. In addition to culture suggested in this catalog special advice is offered when it may prove useful or on request. Every effort is made to get shipments out when desired. Mention of your preferred date will be appreciated, and of one or two alternatives, as a few items may become exhausted.

PRICES include prepaid delivery by parcel post. Usually 3 or 12 plants can be furnished if one or "each" is priced.

PARCEL POST, SPECIAL HANDLING: In certain areas ordinary parcel post does not insure sufficiently rapid delivery for plants. But with "special handling" the parcel is handled just like first class mail. If you are more than two days from Smithwick it will be well to add 35 cents to your remittance to cover this quick service.

A SEED LIST is issued in autumn.



HERBACEOUS PERENNIALS

Achillaea lanulosa A welcome little non-ramping yarrow with heads distinctly white, at 6 to 9". Travels an inch or two a year. Rare form. 50c.
Actinea simplex Wide daisies of brilliant gold, 4 to 10" above silvered rosettes of narrow leaves. June and later. Ideal rock plant. 50c; 3, \$1.00.
Agastache anethiodora, Anise Hyssop. Delightful fragrant tall herb. Spikes of soft blue-lavender continuously, June on. Good soil, shade. 50c.
Anemone caroliniana Brave and dainty and jew-

el-like, inch-and-a-half wide, blue or white, of 8 to 20 cupped petals, May. 3, 50; doz. \$1.50.

Anemone patens nuttalliana, American Pasque. Large six-pointed stars of satiny lavender, March, April, ahead of the leaves. Decorative seed heads. South Dakota's state flower. 65c; 3, \$1.80.

Antennarias: Pussy-toes, Ladies' Tobaccos. Valuable evergreen rock garden ground covers, slow spreading, very low, each with its own texture.

A. aprica Broad little leaves of silvery olive in inch high mats, pussy-toe blossoms at 4". Gray-white, clump, 40c; soft pink, 50c.

A. campestris Broader leaves, velvety deep green, underside white. Toes white or silvery. 50c.

A. microphylla Tiny bluish silver leaves, lovely pattern and texture. Toes white furry. 50c.

A. microphylla, staminate form, with apparent rays of white, 4" or less. Attractive, new. 60c.

A. obovata Like a larger aprica, gray toes. 40c.

A. oxyphylla Broadly spatulate leaves of silver in handsome pattern. For shade. New. 50c.

A. rosea Rare selection with toes of rich dark rose. Narrower leaved than aprica. For rich soil, shade. 75c; 3, \$2.00.

Arenaria hookeri Needle leaved cushion of rich deep green, bebies of stemless white stars, June. Tap-rooted, for scree with lime. 50c; 3, \$1.20.

Arnica fulgens Large daisies of richest gold in patterned elegance. To 14", June. Leaves lanceolate, basal, gray. Summer dormant. 50c; 3, \$1.20.

Artemisia frigida Low, feathery, silvery, fragrant cushion sage. Arching racemes of tiny yellow bells, August. 45c; 3, \$1.00.

Asclepias pumila Diminutive milkweed prolific with cream-white umbels, midsummer on. 5 to 8". Decorative minute leafage. 50c; 3, \$1.20.

Aster batesi Slender arching stems to 24" or more, wreathed in closely set florets, lavender-blue and gold, September. For low blooming clip to 6" in July. 50c; 3, \$1.20.

Aster conspicuus From the Black Hills, and northwest, new to our lists. Lavender-pink, inch-wide blossoms in profusion across the wide corymb-like top, at 24", mainly August. Distinct, fine. 75c.

Aster fendleri Rare 8 to 12" rock aster, a mass of inch-wide cupped blossoms of pearly blue, September. Rated a "darling." 60c; 3, \$1.50.

Aster kumleini Showy purple or blue, gold centered, one of the finest native asters. Sheets of color at 12 to 15", September. 50c; 3, \$1.20.

Aster kumleini, Dream of Beauty. Good definite pink, lavish flowering. 15". 55c; 3, \$1.35.

Aster meritus Earns its name with broad, closely massed corymbs of pinkish violet, in July. 8 to 12". Performs well in shade. 60c; 3, \$1.45.

Aster nebraskensis A tall aster of distinctive grace with long swaying racemes of light lavender-blue, late September. 50c; 3, \$1.35.

Aster ptarmicoides Cream centered white, beginning its long season of beauty in July. Sun or shade. 8 to 14". 50c; 3, \$1.35.

Aster geyeri, 'Black Hills.' Very superior strain, florets to 2" wide, an unsurpassed soft blue, late fall. 30 to 40". Drought resistant. 75c.

Astragali, hosts to nitrogen gathering bacteria, need limy scree, much sun, moderate moisture.

Astragalus gilviflorus, White Orophaca. A snow of high bannered pea blossoms, April, May, on a silver "bun." Height 4", width to 8". 50c; 3, \$1.35.

A. goniatus Fresh lavender bonnets accented with purple, above green lacy leafage, June, August. 4 to 8". Root running but fine. 50c; 3, \$1.35.

A. missouriensis Clusters of brilliant magenta-purple peas, June, on 12 to 20" wide, grayish, 5" high plant. Often short lived. 45c; 3, \$1.20.

A. spatulatus Irresistable gem with massed, light reflecting purple bonnets, May, early June. Faintly frosty, prickly leaves. 4". 50c; 3, \$1.35.

A. barri, Red Orophaca. A rock garden "bun", newly distinguished from *A. tridactylus* by Dr. R. C. Barneby and named in our honor. Gray-green, covered with lavender-rose blossoms in May. 3" to 8" or more. 60c; 3, \$1.50.

Callirhoe involucrata, Wine Cups, Poppy Mallow. Trailing stems to 25", long summer season, deep glossy cups, intense and pleasing wine red. 50c.

Campanula petiolata, Western Harebell. Larger, more floriferous than typical *rotundifolia*, 8 to 18", masses of translucent blue-purple or lavender flaring bells, June and later. 50c; 3, \$1.35.

Cerastium strictum Earth hugging mat of soft deep green, multitudinous white flowers to 8", May, July. Like a large *C. arvense*. Clump, 50c.

Chrysopsis villosa, Golden Aster. Massed beauty in richest tone, August, September, 12". For best effect shear back to 4" in June. 50c; 3, \$1.20.

Clematis scotti, Leather Flower. Intriguing nodding urns, blue to purple in May. 8 to 10". Glaucous plant, showy seed plumes. 65c; 3, \$1.50.

C. scotti Wonderful variant in a fresh pure pink. Rare find, slowly propagated. \$2.00 each.

Clematis tenuiloba Exquisite nodding, wide flaring, four-pointed stars of blue-purple all through June, 10". Narrow lobed leafage, to 6 or 7". Dense ground cover, spreads slowly. 75c; 3, \$1.75.

Dalea (Parosela) aurea Novel and exotic appearing plant, silvery green and airy light yellow in prairie clover effect. 10 to 16", June. Scree. 50c.

Dalea enneandra White and silver in slender swaying racemes atop slender, nearly leafless stems, June, August. 25 to 35". Can be planted among choice low scree things. 50c; 3, \$1.35.

Delphinium menziesi Shades of blue or deep purple-blue, quite large flowers, May, June, plant about 12". Summer dormant. 50c; 3, \$1.35.

Dodecatheon pulchellum (Syns. *vulgare*, *pauciflorum*.) Shooting Stars. As many as fifteen darting rose, or lavender-rose, and gold stars to the umbel, *pulchellum* brings brilliancy and delight to the early garden. Sun or shade. 50c; 3, \$1.30.

D. pulchellum, 'Prairie-Ruby.' First offering. A selection of intense, velvety ruby red, a new color among the "stars." \$1.00 each, 3, \$2.50.

D. pulchellum, 'White Comet.' A pure white of perfect form and large size, with a thread of gold at petal base. 85c; 3, \$2.10.

Drymocallis fissa Cinquefoil cousin with plentiful five petaled, butter yellow saucers, June. 10 to 12". Rich, dark pinnate foliage. 50c; 3, \$1.35.

Echinacea angustifolia, Pink Cone-flower. Beautiful, bold, wide rayed daisies of rosy pink, centers glossy, prickly, mahogany cones. July, 10 to 15". Sun loving, drought proof. 50c; 3, \$1.35.

Erigerons, allied to Aster, are commonly called daisies and are of many types and uses.

E. asper Rich lavender in a dense shaggy fringe, inch-and-a-fourth wide, with golden center. June, 8 to 9". Summer dormant. New. 50c; 3, \$1.20.

E. flagellaris, Whiplash Daisy. A winning Milky Way of dainty white daisies, June and later. 5 to 8". Shallow rooted spreader. Clump, 45c.

E. 'Prairie Gem,' has the habit of flagellaris but is a bit smaller, less invasive and the leaves are greener and three lobed at the tip. Clump, 60c.

E. glabellus Inch wide daisies, light to deep lavender, several to the stem, July, August, 8 to 18". Low, glossy evergreen tufts. 50c; 3, \$1.35.

E. montanensis This willing new one lends a charming touch on limy scree, beginning June. Inch wide, white, 4 to 7". 50c; 3, \$1.35.

E. scribneri Upstanding jewels of glowing white and gold, inch wide, crowded, above a dark green cushion of linear leaves. Gay, sunny scree plant to 5", May, June. 60c; 3, \$1.50.

Eriogonum depauperatum Globular heads, white, tinted rusty pink, above grayish leafage. Modest 4" subshrub, pleasing, new. 50c; 3, \$1.35.

Eriogonum flavum A very pleasing one of the numerous buckwheats. Large fluffy umbels of soft yellow, June, beautiful all-season mats of green felted leaves. 4 to 10". 50c; 3, \$1.35.

Evolvulus nuttallianus Quaint half-inch lavender morning-glories along stems of a furry, 8", branching bushlet. Best in sand. 50c; 3, \$1.35.

Three little Ferns: all drought resistant, loving rich soil, much shade. *Cheilanthes feei*, dark green rugose rock fern, to 5". *Pellaea atropurpurea*, 6" rock fern in glossy deep green. *Woodsia scopulina*, bright green, to 6", accepts much sun, with steady moisture. Each 50c; 3, \$1.10; 1 of each, \$1.35.

Geum triflorum, Prairie Smoke. New to our lists. Deeply cut rosetted leaves of deep green, reddish inflorescence, to 12", sunburned-pink petals that never open wide. Ladies love it! 50c.

Gutierrezia sarothrae, Golden Dome. Countless fine stems and minute vivid green leaves, dressed in sparkling gold, Sept. To 12". 50c; 3, \$1.35.

Hedeoma camporum, Perennial Pennyroyal. Trim 8" herb, flushed with lavender-pink mint type blossoms, June on. Fine fragrance. 45c; 3, \$1.10.

Iris flavissima (arenaria) A welcome little visitor in any rock garden, from Hungary and east. Bright yellow, 5", June. 50c; 3, \$1.35.

Iris missouriensis Graceful flags of silvery blue, at 12 to 18", June. Forming dense clumps of slender leaves. Free blooming. 50c; 3, \$1.35.

Lathyrus incanus, Sand Pea. Clusters of 2 to 7 large blossoms, banners purple-rose, wings white to pink, early May. 4 to 6". This one glaucous, downy. *L. ornatus*, much the same but glabrous, often brighter in banner. These are spreaders worth controlling. Either 50c each.

Lesquerella spatulata, Bladder-Pod. Bears its sun reflecting golden crucifer blossoms joyfully, May, June. 4" high, to 10" wide. For clayey, limy scree. Gray evergreen rosettes. 50c; 3, \$1.20.

Leucocrinum montanum, Sand Lily. Fragrant waxy little white lilies, to 4", grassy leaves, all from crown 2" under ground. Prolific after first year. Lean soil. Summer dormant. 50c; 3, \$1.20.

Lewisia rediviva, Bitter-root. Glorious flowers of rich carmine pink, 2 to nearly 3" wide, upon the ground. Succulent foliage disappears at blossom time to come again in fall. Lean loam or silt, summer dryness essential. State flower of Montana. 60c; 3, \$1.50.

Liatris ligulistylis, Blazing Star. 20 to 30 lovely luminous purple inch wide heads, July. Maroon bud bracts. 18" or higher. 50c; 3, \$1.20.

Liatris punctata, Dwarf Gayfeather. Dense fluffy spikes of fine clear purple, 8 to 14", August. 45c.

Lithophragma parviflora, Woodland Star. Radiant stars of white in capitate raceme, 4", May, to 12" in June. Tiny tubers, small sod, 50c; 3, \$1.35.

Lithospermum incisum, Fringed Puccoon. Softly glowing yellow ruffled trumpets, May. To 12". Charming showy bushlet. 50c; 3, \$1.35.

Malvastrum coccineum, Flame Mallow. Arresting salmon-scarlet, inch wide hollyhock blossoms in short spires. 5 to 8 ". Long season. Deeply cut grayish foliage. Lean soil, gravel. 50c; 3, \$1.35.

Mertensia lanceolata, Prairie Bluebell. In April a 2" stem bears a full cluster of buds, to open thrillingly in the first warm days, to 3". Stems branch and rebranch, with countless clusters, into late June. Never above 10". 60c; 3, \$1.50.

Mirabilis multiflora, Hardy Four-o'clock, 15" high plant, 36" spread. Long season of lavish bloom, in magenta-purple. Large deep root for dryish well drained ground. 50c; 3, \$1.35.

Nothocalais cuspidata Rich textured golden discs many rayed, 2" wide, from a few white margined leaves, April, May. 2 to 6". 50c; 3, \$1.20.

Nuttallia decapetala, Evening Star. Late afternoon blooming, 4" wide flowers, cream-white with a primrose yellow brush of stamens. All summer, strikingly beautiful. 12 to 26". For well drained shaley or gravelly soil. 50c; 3, \$1.35.

Oenothera caespitosa, Gumbo Lily. Great snowy fragrant, flying saucers from the ground in a patch of glossy leaves. 5". Open all day, May to August. Recommended scree. 50c; 3, \$1.20.

Oe. fremonti Surely among the finest of all evening primroses. Pictured and described on cover. \$1.00; 3, \$2.50.

Oe. lavandulaefolia Rich crinkled yellow blossoms, freely, June to frost. 2" wide, open most of the day. 4" tall. Highly rated. 50c; 3, \$1.35.

Oe. missouriensis incana Quite a little different from typical missouriensis, more upright, to 10" or so, leaves gray silky but with the same large yellow saucers. New. 75c; 3, \$1.90.

Oe. oklahomensis Many stemmed, to 18", a well developed plant may be 30" wide and display up to 100 large glossy flowers of deep yellow over a long season. New and rare. 75c; 3, \$1.90.

Oe serrulata Lavish producer of inch wide cups of brightest yellow, May, August. Open most of the day. Compact bushlet to 10". 50c; 3, \$1.20.

Oe speciosa 2 to 3" blossoms of lovely form, in fine white, freely borne in the usual long season of the oenotheras. About 12". Readily grown, root colonizing. 60c; 3, \$1.50.

Oe. speciosa Thrillingly beautiful, rare, rose pink form, 2 to 3' wide, fragrant. \$1.00; 3, \$2.50.

Oxytropis lamberti, Purple Loco. Typically red-purple, light to dark, its many 12" plumes of pea

florets are spectacular, the silvery pinnate basal tufts of leaves handsome. 50c; 3, \$1.20.

Penstemons: They serve many uses delightfully, with varying adaptabilities. All need good drainage, the more important in climates moister than their habitats. Sandy soil for most. Evergreen basal rosettes or mats are the rule.

P. albidus Large white blossoms, June, 10 to 15". Broad lanceolate green leafage. Demands somewhat firm soil texture. 50c; 3, \$1.20.

P. angustifolius Large blossoms, exquisite form and carriage, melting deep azure, 12", June. Foliage glaucous. Often in loose sand. 50c; 3, \$1.20.

P. eriantherus Large, lovely warm lavender with prominent tongue of gold, June, 8 to 12". Dark rough leafage. Needs some clay and lime, extreme drainage, no richness. 50c; 3, \$1.35.

P. glaber Thrilling intensity of blue, dark or lighter. Plant green. To 18" or more, June, July, repeating if cut back. Adaptable. 50c; 3, \$1.35.

P. grandiflorus Tall and stately, very large flowered, cool deep lavender, with glaucous stems and leaves. 30 to 40", June. 55c; 3, \$1.40.

P. nitidus Earliest to bloom, brilliant caerulean blue, large flowered. Plant glaucous. Especially choice dwarf form, 8 to 12", May. 55c; 3, \$1.45.

P. procumbens Creeping 3" mat, tiny ovate leaves rich green with bright blue blossoms. Extra vivid winter green. Sun or half shade. 60c; 3, \$1.45.

P. virens Massed effect in purple-blue, to 10", late June. Small dark glossy leaves, groundcover habit. Easy to grow. 50c; 3, \$1.20.

Petalostemon oligophyllus, Prairie Clover. White circlets in gay mood on green cones, 10", June. Small dark leaflets, airy habit. 50c; 3, \$1.35.

Petalostemon purpureus Circlets of orange anthered purple-red on slender deep green thimbles. June, July, 15". Scree or sand. 50c; 3, \$1.35.

Petalostemon villosus Silvered velvety plant, silvered lavender-rose fingers, all very lovely. July August. Arching, mostly under 12". 50c; 3, \$1.35.

Phloxes of the Great Plains delight in a scree of dominant clay content and a bit of richness. Give half shade and keep cool until established, then more sun.

P. alyssifolia abdita (Dr. Wherry's new classification of the larger flowered form.) Lavender-pink inch wide, fragrant, full-lobed, May, June. To 4" Slow mat maker. 60c; 3, \$1.50.

P. alyssifolia, select cream-white. 55c; 3, \$1.35.

P. andicola Large full lobed white, needle leaved phlox of the high prairies, making colonies or mats. 4". May, July. Any soil. 50c; 3, \$1.35.

P. andicola, a fine rare lavender, 55c; 3, \$1.35.

P. andicola, very rare beautiful powder blue. 60c.

P. hoodi Mossy green mats, very low, spreading, finally wide. Snowed over with lovely little blossoms in April and early May. 55c; 3, \$1.45.

Polygala alba, Milkwort. These slender tapering spikes of white, sometimes purple tinted, never fail to charm. To 8". Dainty dark leafage, evergreen. Heavy soil preferred. New. 50c; 3, \$1.20.

Potentilla divisa A double handful of pirate's gold among silvered deep-cut leaves, early May. 3" with spread to 10". Scree or rocks. 55c; 3, \$1.45.

Ruellia ciliosa Inch-and-a-half petunia in glowing lavender, catching everyone's eye. 8 to 12".

Fresh every day, all summer. 50c; 3, \$1.35.

Senecio purshianus Rock plant with all season gray 2" gray foliage tufts, displaying in June airy panicked golden daisies at 8". 50c; 3, \$1.20.

Sideranthus spinulosus Massed inch wide asters of glinting gold, at 4", September. The type has frosty, fine textured, pungent foliage, branches densely. Poor soil, hot sun. 50c; 3, \$1.35.

Solidago glaberrima, Smooth Goldenrod. Charming broad, nodding tipped panicles, August. Choice dwarf form, to 12". Moderate traveler. 50c.

S. mollis Especially rich billowy heads, September, 4 to 12". Gray-green. Slow traveler. 50c.

S. pallida Lovely, fragrant, luminous light golden plumes, September, 16 to 18". Broad glossy basal leaves, non-spreading clump habit. 60c; 3, \$1.50.

S. pulcherrima September beauty is plump tapering rods. 16". Clump habit, non-spreading. 60c.

Thalictrum venulosum, Dwarf Meadow Rue. Very attractive mounds of dense, faintly bluish foliage, to 6" or so. Negligible bronzy bloom to 20". Colony forming, not rampant. 50c; 3, \$1.20.

Thermopsis rhombifolia, Dwarf Golden Pea. 8 to 12". Broad packed racemes of glowing medium yellow, May. Unusual, beautiful colonizer. 50c.

Townsendia exscapa, Easter Daisy. "Inscrutable" glowing pink daisies upon a tuffet of evergreen leaves, all under 2". Lean scree. 50c; 3, \$1.35.

Townsendia sericea Even more dwarf, one of the first of the Plains' responses to spring. Gem in white on ashy green, early April. 50c; 3, \$1.35.

Tradescantia bracteata, Rainbow spiderwort. Of many colors and tints. Breaks into bloom in June at 4", continues in long season to 10". Reported to spread rapidly in some environments. Selections in bright rose, purple, each 40c; appleblossom pink, fine white, each 50c. Mixed, doz. \$3.00.

Verbena bipinnatifida Bright lilac-blue, steady in production from May to October. Low, trailing wide spreading, hardy with winter dryness at the crown. 45c; 3, \$1.10. By June from seed, pkt. 25c.

Viola adunca A smiling quizzical little old man in deep blue. Part shade. Often blooms again in autumn. Good soil. 40c; 3, \$1.00.

Viola nuttalli Brilliant golden violet of the dry sunny plains. Heavy producer, April, May. 2 to 6". Summer dormant. 40c; 3, \$1.00.

Viola pedatifida Large blossoms of light to medium violet, well above deeply incised leaves. 4". Any soil, light shade or sun. 40c; 3, \$1.00.

Viola rugulosa White, tinted pink, with violet pencilings. Long season, 4 to 12". Short stolons build a dense groundcover. Clump, 45c; 3, \$1.20.

Yucca glauca Bayonet-like leaves to 18"; 30" or taller spires, occasionally branched, of nodding lilies, usually greenish cream, July. 60c; 3, \$1.50.

BULBS FOR FALL PLANTING

Allium cernuum, Nodding Onion. Umbels of light shell pink, July, at 8 to 16". 3, 45c; doz. \$1.00.

A. geyeri Very pink heads at 4", mountain top to 20" in lush meadow. New. 3, 50c; doz. \$1.20.

A. recurvatum superbum Much larger than cernuum, richer pink. Leaves glaucous, flattish. 3, 50c.

A. textile Broad upright umbels of green ribbed white stars at 8", May. Summer dormant. 3, 45c.

Androstephium caeruleum, Blue Bethlehem Star.

Wide umbels of soft blue, 4 to 8", May. Few dark green leaves. 30c; 3, 85c; large, 40c; doz. \$3.60.

Calochortus gunnisoni, Mountain Mariposa. Lovely white chalice, clusters of greenish hairs at base. July, 16". Grassy leaves. 3, 50c; doz. \$1.20.

Calochortus nuttalli, Sego Lily, Mariposa Tulip. Shining white, marked gold and maroon. June, 12". Glaucous plant. 3, 50c; doz. \$1.20.

Erythronium mesochorium, Prairie Erythronium. Rare member of a very lovely group of Maytime bulbs. Lavender tinted white stars, segments recurved in our strain, leaves unspotted. Free flowering. Increase by offsets. 3, 60c; doz. \$2.20.

Lilium umbellatum True species, resembling *L. philadelphicum*. One to three up-facing orange-red cups, 4" wide, June, July. 10 to 16". Lime tolerant. 4", good soil, well drained. Blooming size, 40c; 3, \$1.10; 1 inch, 50c.

Nemastylis acuta, Prairie Irid. Like an enormous blue-eyed grass flower in light gentian blue, an inch to nearly two wide. June, 4 to 6". Stiff pleated leaves. 3, 60c; doz. \$2.20.

Zygadenus elegans, False Camas. Spire-like panicles of whitish stars, yellow spotted at base, attractive. 18", July. Part shade. 3, 60c; doz. \$2.20.

Zygadenus gramineus Spire of creamy stars in a haze of golden stamens, June, 10 to 16". Basal grassy, green leaves. 3, 45c; doz. \$1.50.

FOR GARDENS IN HALF SHADE and moderately rich soil, well drained: *Achillaea*, *Agastache*, *Allium cernuum*, *geyeri* and *recurvatum*, *Anemone patens*, *Antennarias campestris*, *microphylla*, *oxyphylla* and *rosea* and *Arnica fulgens*. *Asters* *conspicuus*, *geyeri*, *meritus* and *ptarmicoides*, *Campanula*, *Cerastium*, both *clematises*, *Delphinium*, the *Dodecatheons*, *Erigerons asper*, *flagellaris*, *Prairie Gem* and *glabellus*. The ferns, *Geum*, *Iris*, *Liatris ligulistylis*, *Lilium*, *Lithophragma*, *Penstemon procumbens*, *Solidago pallida*, *Thalictrum*, *Violets* except *nuttalli*. With adequate moisture, however, sun is equally agreeable to these shade tolerant kinds.

COLD CLIMATE CACTI

Cactus culture: Cold climate cacti naturally expend their moisture and shrivel in preparation for winter. An ample depth, 12" or less, of 9 parts gravel and coarse sand to 1 of good loam, supports lavish bloom, aids essential winter dryness.

Coryphantha vivipara Ball, to 3" or more, showy carmine flowers on top, June. 35c; 3, 90c.

Echinocereus viridiflorus Glossy greenish yellow blossoms on the ribs, June. Color banded spines on new growth. 35c; 3, 90c.

Neobesseya missouriensis Ball, to 2" or wider. Blossom yellow or pale orange, May. 35c; 3, 90c.

Opuntia aurea. New. Almost spineless prickly pear. Wonderfully rich yellow flower. 50c.

O. fragilis Brittle Cactus Pygmy prickly pear, 3". Large yellow blossoms, June. 35c; 3, 90c.

O. humifusa Pads 4 to 5". Selection with very large, red centered yellow blossoms, June. Ripe pears dark red, showy, edible. 45c; 3, \$1.10.

O. imbricata, Tree Cactus. Ribbed cylindrical sections, growing to 48" or more. Flowers at 24" or so, carmine, July. Single Joints, 50c; a few specimens at \$3.00 and \$4.00.

O. polyacantha Many spined prickly pear, pads 4" or more, 4" crystal-like blooms, May. Select

pure lemon, fine rich orange, wonderful deep carmine, each 50c; 3 of a color, \$1.35. New char- treuse with apple green base, 60c; one each of four colors, \$1.80.

O. rhodantha Large flowered selection, thrilling carmine pink. Large spineless pads. 75c; 3, \$1.80

O. rhodantha, 'Purple Knight.' Remarkable for its purple-red pads in winter and nearly black spines. Flower, carmine red. New, 75c each.

O. rutila Narrow, smallish pads, rapid growth. 2" carmine blossoms in profusion. 40c; 3, \$1.10.

Opuntia 'Apache' Ferocious spines, young spines reddish, erect like hair standing on end. Probable *rutila* hybrid, carmine flower. Each, 50c.

Opuntia 'Smithwick' Humifusa x fragilis. Twice size of fragilis, free blooming bright yellow. 40c.

Opuntia 'Desert Splendor' Most eye-compelling show we have seen, large, intense carmine, sometimes five blossoms to the pad. Relationship unknown. Sustained slight injury at 19 below without snow or other protection. 75c each.

Cactus Collections: One each, any 10 of the above 17 descriptions, at the each price, \$1.00 off. One each of all 17, at the each price, \$2.00 off.

SHRUBS

Amorpha canescens, Lead Plant. Low, gray, velvety effect, with orange dotted purple fingers of bloom, June, July. 12 to 25". 85c; 3, \$2.00.

Artemisia cana, Gray Sage. Rather stiffly erect, 18 to 36". 1½" lance-linear leaves. 65c; 3, \$1.50.

Artemisia filifolia, Sand Sage. Beautiful, silvery, fine textured, much branched, delightfully fragrant. Commonly 24". 85c; 3, \$2.00.

Artemisia tridentata, Sagebrush. Tiny blue-silvered, three-tipped leaves, erect bushy plant. Nice fragrance. Local form, to 36". \$1.00; 3, \$2.50.

Atriplex canescens, Salt Bush. Densely branched, broad, all gray-green bush, to 24". Conspicuous seed flanges. Nearly evergreen. 75c; 3, \$1.65.

Cercocarpus montanus, Mountain Mahogany. Little slightly grayish, toothed leaves, novel greenish blossoms, silky seed tassels. Pleasing alone or grouped. Erect to arching, to 8 ft. \$1.00; 3, \$2.50.

Chrysothamnus graveolens, Rabbit Brush. Broad 36 to 40" bush, covered with goldenrod-like bloom in September. Spectacular effect. 85c; 3, \$2.00.

Chrysothamnus plattensis A dwarf, to 10 or 12", white stemmed, gray leaved, with similar bloom in fall, of light gold. New, rare. 75c; 3, \$1.80.

Eurotia lanata, Winter-Fat. Holds its light gray color well into winter, adding seed tufts of white in autumn. 12 to 20". 85c; 3, \$2.00.

Prunus melanocarpa, Choke Cherry. Extra large fruited selection, mild to eat, marvelous flavor in jelly or juice. Striking in fruit, charming in thick fingers of creamy flowers in May. Usually 10 to 12 ft. 24 to 30", each 85c; 3, \$2.00.

Rosa arkansana, 'J. W. Fargo.' Native tetraploid of 40 petals, delightful wild rose pink, showing a golden center. Cluster flowering, mainly July. 10 to 20", much branched. \$1.00; 3, \$2.50.

Rosa foliolosa Refreshing, 1½" pure white single. Small shining leaflets. Usually 10". \$1.00; 3, \$2.50.

Sarcobatus vermiculatus, Greasewood. Bright green, faintly glaucous, tiny succulent leaves, desert type spiny bush to 30 to 48". New. \$1.50; 3, \$4.00.

